



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO15065**

Purchase Order Date 9/30/2011

PO Print Date 9/30/2011

Page Number 2 of 4

Order From : VC-MET001  
METAUX CASTLE  
A.M. CASTLE & CO. (CANADA) INC. - BOX B9204 PO BOX 9100  
TORONTO, ON M4Y 3A5  
CA

Contact Name		Buyer	Brigitte Golden
Vendor Phone	514 694 9575	Requisition Nbr	
Vendor Fax	514 695 3281	Tax Resale Nbr	10127-2607
Vendor Account Nbr		Terms	Net 30
		Currency	CAD
		FOB	Destination-Collect

Special Inst: 6061-T6/T651/T6510/T6511/T62  
ALUMINUM BAR  
SPEC; QQ-A-225/8 OR AMS-QQ-A-225/8  
(OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR  
AMS 4160)  
OR ASTM B211 OR ASTM B221

4	M6061T6B0.750X06.000	6061T6 BAR .750 X 6.00	10/4/2011	24.00	Yours ppd	\$12.3300	\$295.92
			Yes	f			

Special Inst: 6061-T6/T651/T6510/T6511/T62  
ALUMINUM BAR  
SPEC: QQ-A-225/8 OR AMS-QQ-A-225/8  
(OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR  
AMS 4160)  
OR ASTM B211 OR ASTM B221

5	M6061T6B1.250X01.250	6061-T6 Bar 1.25 x 1.25	10/4/2011	20.00	Yours ppd	\$3.9400	\$78.80
			Yes	f			

Special Inst: SAME AS ABOVE

6	M174B1.250X02.000	17-4 SS Bar 1.250 x 2.00	10/4/2011	20.00	Yours ppd	\$56.9100	\$1,138.20
			Yes	f			

Special Inst: 17-4 PM SS BAR PER AMS 5604/5643  
GRAIN MUST BE ALONG LENGTH OF  
BAR  
MIN: YIELD TENSILE  
STRENGTH=100KSI  
MIN: ULTIMATE TENSILE  
STRENGTH=150KSI

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 9/30/2011



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO15065**

Purchase Order Date 9/30/2011

PO Print Date 9/30/2011

Page Number 3 of 4

**Order From :**

VC-MET001

METAUX CASTLE

A.M. CASTLE & CO. (CANADA) INC. - BOX B9204 PO BOX 9100

TORONTO, ON M4Y 3A5

CA

**Contact Name**

**Vendor Phone**

514 694 9575

**Vendor Fax**

514 695 3281

**Vendor Account Nbr**

**Buyer**

Brigitte Golden

**Requisition Nbr**

**Tax Resale Nbr**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

Destination-Collect

7	M6061T6B1.500X01.500	6061-T6 Bar 1.50 x 1.50	10/4/2011 Yes	12.00 f	Yours ppd	\$5.0600	\$60.72
---	----------------------	-------------------------	------------------	------------	-----------	----------	---------

**Special Inst:** SAME AS LINE # 5

8	M6061T6R3.500	6061 RD bar 3.50	10/4/2011 Yes	12.00 f	Yours ppd	\$27.6200	\$331.44
---	---------------	------------------	------------------	------------	-----------	-----------	----------

**Special Inst:** 6061-T6/T651/6510/T6511/T62  
ALUMINUM ROUND BAR  
SPEC: QQ-A-225/8 OR AMS-Q-A-  
225/8(OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8OR AMS-QQ-A-200/8 (OR  
AMS 4160)  
OR ASTM B211 OR ASTM B221

9	M6061T6R0.750	6061-T6 Round Bar .750"	10/4/2011 Yes	40.00 f	Yours ppd	\$1.3100	\$52.40
---	---------------	-------------------------	------------------	------------	-----------	----------	---------

**Special Inst:** SAME AS ABOVE

10	M304R1.500	304 round bar 1.500	10/4/2011 Yes	12.00 f	Yours ppd	\$16.4000	\$196.80
----	------------	---------------------	------------------	------------	-----------	-----------	----------

**Special Inst:** AISI 304/316 SS ROUND BAR  
(NOTE: AISI 303 NOT ACCEPTABLE)  
SPEC: ASTM A276

11	M6061T6H1.000	6061-T6 HexBar 1.00	10/4/2011 Yes	12.00 f	Yours ppd	\$3.8800	\$46.56
----	---------------	---------------------	------------------	------------	-----------	----------	---------

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 9/30/2011



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO15065**

Purchase Order Date 9/30/2011

PO Print Date 9/30/2011

Page Number 4 of 4

**Order From :**

VC-MET001

METAUX CASTLE

A.M. CASTLE & CO. (CANADA) INC. - BOX B9204 PO BOX 9100

TORONTO, ON M4Y 3A5

CA

**Contact Name**

**Vendor Phone**

514 694 9575

**Vendor Fax**

514 695 3281

**Vendor Account Nbr**

**Buyer**

Brigitte Golden

**Requisition Nbr**

**Tax Resale Nbr**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

Destination-Collect

**Special Inst:** 6061-T6/T651T6510/T6511/T62  
ALUMINUM HEX BAR  
SPEC: QQ-A-225/8 OR AMS-QQ-A-225/8  
(OR AMS4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8(OR  
AMS 4160) OR ASTM B211 OR ASTM  
B221

12	M6061T6B1.500X04.000	6061T6 Bar 1.500 x 4.00	10/4/2011 Yes	12.00 f	Yours ppd	\$15.8800	\$190.56
----	----------------------	-------------------------	------------------	------------	-----------	-----------	----------

**Special Inst:** SAME AS LINE #4

13	M6061T6B1.500X02.000	6061-T6 Bar 1.50 x 2.00	10/4/2011 Yes	12.00 f	Yours ppd	\$7.9300	\$95.16
----	----------------------	-------------------------	------------------	------------	-----------	----------	---------

**Special Inst:** SAME AS ABOVE

**PO Total:** \$5,495.36

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 9/30/2011

## Brigitte Golden

---

**From:** Desbiens, Marc <mdesbien@amcastle.com>  
**Sent:** Friday, September 30, 2011 10:19 AM  
**To:** Brigitte Golden  
**Subject:** RE: RFQ

Hi Brigitte,

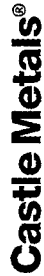
12 x 6061T6 Bar 1.500 x 1.500 \$ 5.06 Ft ✓  
12 x 6061T6 round bar 3.500 \$ 27.62 Ft ✓  
12 x 4140N bar 1.500 x 1.500 \$ 11.70 Ft (4140 annealed) — xby  
40 x 6061T6 round bar .750 \$ 1.31 Ft ✓  
12 x 304 round bar 1.500 \$ 16.40 Ft ✓  
12 x 6061T6 Hex bar 1.000 \$ 3.88 Ft ✓  
12 x 6061T6 bar 1.500 x 4.000 \$ 15.88 Ft ✓  
12 x 6061T6 Bar 1.250 x 4.500 offer 1.50" x 5.00" \$ 19.87 Ft — xby  
12 x 6061T6 Bar 1.500 x 2.000 \$ 7.93 Ft ✓

60 x 4130N Bar .500 x 3.00 \$ 26.10 Ft ✓  
80 x 304 Bar .500 x 2.500 \$ 13.10 Ft ✓  
24 x 6061T6 Bar .750 x 8.000 \$ 16.45 Ft ✓  
24 x 6061T6 Bar .750 x 6.000 \$ 12.33 Ft ✓  
20 x 6061T6 Bar 1.250 x 1.250 \$ 3.94 Ft ✓  
20 x 17-4PH Bar 1.250 x 2.00 \$ 56.91 Ft ✓

7-8 days except for 60 x 4130N Bar .500 x 3.00----> 10 days

Thank You

This E-mail may contain proprietary information and may be confidential. You are to treat this material in accordance with your company's confidentiality policies and limit any distribution accordingly. If you are not the intended recipient of this E-mail, you are hereby notified that any dissemination, distribution or copying of this message is strictly prohibited. If you received this message in error, please delete it immediately.



A. M. Castle & Co.

# PACKING SLIP

Page 1 of 1

Shipment No:1018982

Ship From:		Sold To:	Ship To:	Deliver To:
A. M. Castile & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped	F.O.B.	Freight Terms	Carrier	BOL No
12-OCT-2011	ORIGIN	Prepaid	LOCAL FLEET	1018982-5

Shipment Details	
Final Destination Branch - MON	

Order No	Line No	Item No	Description
1742903	1	8102	1.5000.SQ.6061.T6511.ALUMINUM.EXT.144.0000 SPECIFICATIONS: AMS QQ-A-200/8,ASTM B221
Purchase Order No	Part Number	Ordered Qty	Invoice Qty
15065		12.00 FT	12 FT
Details			
Delivery No.	Mill	Heat Number	Mech Id PCS
97910333		20215091	1
		Width (IN)	Length (IN)
			144
		Shipped Qty(LBS)	
			31.68

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material conforms by this certification conforms with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date: \_\_\_\_\_ Name: \_\_\_\_\_

29/10/12

# Certified Inspection Report

**sapa:** Sapa Industrial Extrusions  
53 POTTSVILLE STREET

CRESSONA, PA  
17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa AB

## Invoice To Customer

A M CASTLE & COMPANY  
3400 NORTH WOLF ROAD  
Attn: Susan Queisser

FRANKLIN PARK, IL - 60131

## Ship To Customer

A M CASTLE & COMPANY  
26800 MILES RD

BEDFORD HEIGHTS, OH - 44146

Sales Order Number	Line No.	Customer P/O	Cert Number	Page
1100093032	1	10-44877-1	SAPA98075	Page 1 of 2
			Cert Creation Date	Cert Print Date
			02-AUG-09	02-AUG-09

Quantity Shipped	Date Shipped	Item Description
1010	02-AUG-09	Extruded Square Bar
B/L		1500 SQ
64344		144000 IN LN
		6061 / T6511
		FIN M-MILL
		W/F 2.646 F 02 CS 2.1
		Marking CONTINUOUS;
		ASTMB221 REV 08
		AMS-QQ-A-200/8 REV
		ASMESB221 REV 99
		UNS#A96061 REV
Delivery Id		
4034276		
Customer/Part No.		
8102		

## Applicable Specifications, Revisions and Exceptions

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

## Legal Statement

We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

## Signature And Title

*Dave A Lukasak*  
Dave A Lukasak  
Tech/Quality Manager

02-AUG-09

## Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight	
				Gross	Net
G12-PKG1084874	20215091	16	PCS	510	505
G12-PKG1084877	20215091	16	PCS	510	505

CASTLE METALS CORP

DATE RCVD 8-3-09

IAC 8100

APPROVED BY *tm*

## Composition Limits

Alloy	Si		Fe		Cu		Mn		Mg		Cr		Zn	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	0.40	0.8	---	0.7	0.15	0.40	---	0.15	0.8	1.2	0.04	0.35	---	0.25



Sapa Industrial Extrusions  
53 POTTSVILLE STREET  
CRESSONA, PA  
17929-0187

## Certified Inspection Report

Sales Order Number 1100093032	Line No. 1	Customer P/O 10-44877-1	Cert Number SAPA98075	Page Page 2 of 2
			Cert Creation Date 02-AUG-09	Cert Print Date 02-AUG-09

Alloy	Ti		Bi		Pb		Others Each		Others Total	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	---	0.15	---	---	---	---	---	0.05	---	0.15

### Composition Results

Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Bi	Pb	Others Each	Others Total
5021424	0.7	0.23	0.27	0.03	0.9	0.04	0.04	0.01	---	---	---	---

### Mechanical Property - Test Limits

Test Type		UTS - L		TYS - L		EL 4D-Long	
UOM		KSI		KSI		PCT	
# of Test		--		--		--	
Test Temper	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MAX Value
T6511	20215091	4	42.1	44.3	37.1	40.7	17.3

### Cert Notes

Products manufactured with a T6511 temper also meet T6 temper requirements.

Yield strength has been determined by the 0.2% offset method

All Alloys Produced at Sapa Industrial Extrusions comply with 0.4% Maximum Lead per RoHS, with the exception of 6262 alloy

Made in USA



Castle Metals®

PACKING SLIP

A. M. Castle & Co.

Page 1 of 1

Shipment No:1018982

<b>Ship From:</b> A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date Shipped</b> 12-OCT-2011	<b>F.O.B.</b> ORIGIN	<b>Freight Terms</b> Prepaid	<b>Carrier</b> LOCAL_FLEET	<b>BOL No</b> 1018982-5			

<b>Shipment Details</b>		<b>Final Destination Branch - MON</b>	
-------------------------	--	---------------------------------------	--

<b>Order No</b> 1742903	<b>Line No</b> 2	<b>Item No</b> 21200	<b>Description</b> 3.5000 RD.6061.T6511.ALUMINUM.EXT.144.0000 SPECIFICATIONS: AMS QQ-A-200/8,ASTM B221				
<b>Purchase Order No</b> 15065	<b>Part Number</b>		<b>Ordered Qty</b> 12.00 FT	<b>Invoice Qty</b> 12 FT			
<b>Details</b>							
<b>Delivery No.</b> 97710319	<b>Mill</b> SERVICE CENTER METALS LLC	<b>Heat Number</b> 201113325	<b>Mech Id</b> 1	<b>PCS</b>	<b>Width (IN)</b>	<b>Length (IN)</b> 144	<b>Shipped Qty(LBS)</b> 135.77

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.	
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.	
Reviewed by Authorized Castle Metals Representative:	Date: Name:

Car 1/14/13



**Castle Metals FP**

HEAT NUMBER 20111.3325

MECHANICAL ID \_\_\_\_\_

ITEM CODE 21200

LOT NUMBER \_\_\_\_\_

PO NUMBER 132770

RECEIPT DATE 9/12/11

SUPPLIER SCM

SPECIFICATION \_\_\_\_\_

LCS NO

COMMENT \_\_\_\_\_

APPROVED BJ



SERVICE CENTER METALS  
5850 Quality Way  
Prince George, VA 23875

# CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
134567	1

BILL TO	MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT
A. M. Castle and Company	139639	RD0026	9/8/2011
SHIP TO	CUSTOMER PO	ALLOY / TEMPER	SALESPERSON
A. M. Castle and Company	132770	6061-T6511	David Schroeder
Quantity Certified	CUSTOMER PART NUMBER	DESCRIPTION	
1,900 lbs	21200	ROD 3.500 +/- .012	

CERTIFICATION
ASTM-B221-08 StencilContinuous
SPECIFICATION
AMS-QQA-200/8
SPECIFICATION
A96061-03

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

## Mechanical Properties

Test No.	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
91	201113325	08/25/11	52.3	48.7	15.0
92	201113325	08/25/11	52.8	49.4	15.0

## Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
C29J1005	6061	0.74	0.38	0.32	0.09	0.89	0.08	0.01	0.01
C29J1007	6061	0.75	0.37	0.32	0.11	0.89	0.10	0.01	0.01

Melted In  
United States of America

Print Date: 9/8/2011

Rev. 9/06/07 - UMS

Calvin J. Wiggins, Director of Quality & Technical Services

**Castle Metals®**

A. M. Castle &amp; Co.

## PACKING SLIP

Page 1 of 1

Shipment No:1018982

<b>Ship From:</b> A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date Shipped</b> 12-OCT-2011	<b>F.O.B.</b> ORIGIN	<b>Freight Terms</b> Prepaid		<b>Carrier</b> LOCAL_FLEET	<b>BOL No</b> 1018982-5		

<b>Shipment Details</b>	<b>Final Destination Branch - MON</b>
-------------------------	---------------------------------------

<b>Order No</b> 1742903	<b>Line No</b> 4	<b>Item No</b> 21162	<b>Description</b> 0.7500.RD.6061.T6511.ALUMINUM.EXT.144.0000 SPECIFICATIONS: AMS QQ-A-200/8,ASTM B221			
<b>Purchase Order No</b> 15065	<b>Part Number</b>		<b>Ordered Qty</b> 48.00 FT	<b>Invoice Qty</b> 48 FT		
<b>Details</b>						
<b>Delivery No.</b> 97917309	<b>Mill</b> SERVICE CENTER METALS LLC	<b>Heat Number</b> 201016911	<b>Mech Id</b> 4	<b>Width (IN)</b>	<b>Length (IN)</b> 144	<b>Shipped Qty(LBS)</b> 25.44

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.	
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.	
Reviewed by Authorized Castle Metals Representative:	Date: Name:

*Rec'd 10/13*

# CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

**SERVICE CENTER METALS**  
5850 Quality Way  
Prince George, VA 23875

OUR ORDER NUMBER	ITEM
119315	1

BILL TO A. M. Castle and Company	MANIFEST NUMBER 121548	DIE NUMBER RD0003	DATE OF SHIPMENT 1/4/2011	CERTIFICATION ASTM-B221-08 StencilContinuous
SHIP TO A. M. Castle and Company	CUSTOMER PO 87540	ALLOY/TEMPER 6061-T6511	SALESPERSON David Schroeder	SPECIFICATION AMS-QQA-200/8
Quantity Certified	5,396 lbs	865pcs	21162	SPECIFICATION A96061-03

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

**Castle Metals FP**  
HEAT NUMBER 201016911  
MECHANICAL ID (201016911)

ITEM CODE	21162
LOT NUMBER	
PO NUMBER	87540
RECEIPT DATE	1-7-2011
SUPPLIER	SCM
SPECIFICATION	
LCS	
COMMENT	AD
APPROVED	DL

*Handwritten:* PB, next to PB, 6/11/13

## Chemical Composition for Alloy 6061

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other	Each	Total	AI	Melted In
6061	Max 0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15	0.15	Remainder	
	Min 0.40	-	0.15	-	0.8	0.04	-	-	-	-	-	-	

United States of America

Print Date: 1/4/2011

Calvin J. Wiggins, Director of Quality & Technical Services



SERVICE CENTER METALS  
5850 Quality Way  
Prince George, VA 23875

# CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	119315	ITEM	1
------------------	--------	------	---

BILL TO	A. M. Castle and Company	MANIFEST NUMBER	121548	DIE NUMBER	RD0003	DATE OF SHIPMENT	1/4/2011
SHIP TO	A. M. Castle and Company	CUSTOMER PO	87540	ALLOY/TEMPER	6061-T6511	SALESPERSON	David Schroeder
Quantity Certified	5,396 lbs	CUSTOMER PART NUMBER	21162	DESCRIPTION	ROD .750 +/-0.04		

CERTIFICATION  
ASTM-B221-08 StencilContinuous

SPECIFICATION  
AMS-QQA-200/8

SPECIFICATION  
A96061-03

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

## Mechanical Properties

Test No.	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201016911	12/21/10	49.7	46.6	18.9
2	201016911	12/21/10	49.3	46.2	17.2
3	201016911	12/21/10	49.1	46.0	18.0
4	201016911	12/21/10	49.2	46.0	17.5
5	201016911	12/21/10	48.8	45.7	16.6
6	201016911	12/21/10	49.3	46.3	18.9
7	201016911	12/21/10	49.5	46.4	18.0
8	201016911	12/21/10	49.5	46.4	18.8
9	201016911	12/21/10	48.8	45.4	16.6
10	201016911	12/21/10	49.1	46.0	15.5
11	201016911	12/21/10	49.2	46.2	15.5

Swich

Print Date: 1/4/2011

Calvin J. Wiggins, Director of Quality & Technical Services

**Castle Metals®**

A. M. Castle &amp; Co.

**PACKING SLIP**

Page 1 of 1

Shipment No:1018982

<b>Ship From:</b> A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date Shipped</b> 12-OCT-2011	<b>F.O.B.</b> ORIGIN	<b>Freight Terms</b> Prepaid	<b>Carrier</b> LOCAL FLEET	<b>BOL No</b> 1018982-5			

<b>Shipment Details</b>		<b>Final Destination Branch - MON</b>
-------------------------	--	---------------------------------------

<b>Order No</b> 1742903	<b>Line No</b> 5	<b>Item No</b> 14836	<b>Description</b> 1.5000.RD.304/304L.STAINLESS.CF.ANN.132.0000-156.0000 SPECIFICATIONS: AISI 304/304L,AMS 5639,AMS 5647,AMS QQ-S-763,ASME SA182,ASME SA193 B8,ASME SA479,ASTM A182,ASTM A276,ASTM A479,ASTM A484,UNS S30400,UNS S30403,ASTM A193 GR B8				
<b>Purchase Order No</b> 15065	<b>Part Number</b>		<b>Ordered Qty</b> 12.00 FT	<b>Invoice Qty</b> 12 FT			
<b>Details</b>							
<b>Delivery No.</b> 97710319	<b>Mill</b> NORTH AMERICAN STAINLESS	<b>Heat Number</b> 9NN2	<b>Mech Id</b> PCS	<b>Width (IN)</b> 1	<b>Length (IN)</b> 144	<b>Shipped Qty(LBS)</b> 72.12	

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date: Name:

*Page 1 of 1*

Castle Metals FP

HEAT NUMBER 9NN2  
MECHANICAL ID \_\_\_\_\_  
ITEM CODE 14836  
LOT NUMBER \_\_\_\_\_  
PO NUMBER 118950  
RECEIPT DATE 8/26/11  
SUPPLIER NAS  
SPECIFICATION \_\_\_\_\_  
LCS NO  
COMMENT \_\_\_\_\_  
APPROVED LSJ